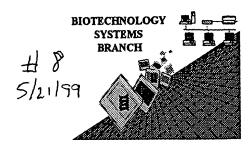
Snivaster -W SEQUENCE LISTING ERROR REPORT



The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following CRF diskette:

Application Serial Number: 08/962,560

Art Unit / Team No.: 14/3

Date Processed by STIC: 2/26/19

THE ATTACHED PRINTOUT EXPLAINS THE ERRORS DETECTED.

PLEASE BE SURE TO FORWARD THIS INFORMATION TO THE APPLICANTS BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANTS ALONG WITH A NOTICE TO COMPLY or,
- 2) CALLING APPLICANTS AND FAXING THEM A COPY OF THE PRINTOUT WITH A NOTICE TO COMPLY

THIS WILL INSURE THAT THE NEXT SUBMISSION RECEIVED FROM THEM WILL BE ERROR FREE.

IF YOU HAVE ANY FURTHER QUESTIONS, PLEASE CALL:

ARTI SHAH 703-308-4212

# Raw Sequence Listing Error Summary

#### SERIAL NUMBER: ERROR DETECTED SUGGESTED CORRECTION ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE Wrapped Nucleics The number/text at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor after creating it. Please adjust your right margin to .3, as this will prevent "wrapping". The amino acid number/text at the end of each line "wrapped" down to the next line. Wrapped Aminos This may occur if your file was retrieved in a word processor after creating it. Please adjust your right margin to .3, as this will prevent "wrapping". The rules require that a fine not exceed 72 characters in length. This includes spaces. Incorrect Line Length All text must be visible on page. Misaligned Amino Acid. The numbering under each 5th amino acid is misaligned. This may be caused by the use of tabs Numbering between the numbering. It is recommended to delete any tabs and uses spacing between the numbers. This file was not saved in ASCII (DOS) text, as required by the Sequence Rules. \_ Non-ASCII Please ensure your subsequent submission is saved in ASCII text so that it can be processed. \_\_ Variable Length Sequence(s) \_\_\_\_ contain n's or Xaa's which represented more than one residue. As per the rules, each n or Xaa can only represent a single residue. Please present the maximum number of each residue having variable length and indicate in the (ix) features section that some may be missing. 7 \_\_\_\_ Wrong Designation Sequence(s) \_\_\_\_\_ contain amino acid or nucleic acid designators which are not standard representations as per the Sequence Rules (Please refer to paragraph 1.822) Skipped Sequences \_ missing. If intentional, please use the following format for each skipped sequence: (OLD RULES) (2) INFORMATION FOR SEQ ID NO:X: (I) SEQUENCE CHARACTERISTICS: (Do not insert any headings under "SEQUENCE CHARACTERISTICS") (xI) SEQUENCE DESCRIPTION:SEQ ID NO:X: This sequence is intentionally skipped Please also adjust the "(iii) NUMBER OF SEQUENCES:" response to include the skipped sequence(s). Sequence(s) \_\_\_\_ missing. If Intentional, please use the following format for each skipped sequence. Skipped Sequences (NEW RULES) <210> sequence id number <100> sequence id number 000 Use of N's or Xara's Use of N's and/or Xaa's have been detected in the Sequence Listing. (NEW RULES) Use of <220> to <223> is MANDATORY if n's or Xaa's are present Use of <213>Organism Sequence(s)\_\_\_\_ \_\_\_ are missing this mandatory field or its response. (NEW RULES) Use of <220>Feature are missing the <220>Feature and associated headings. Sequence(s)\_ (NEW RULES) Use of <220> to <223> is MANDATORY if <213> ORGANISM is "Artificial" or "Unknown" (See "Federal Register," 6/01/98, Vol. 63, No. 104, pp. 29631-32) (Sec. 1.823 of new Sequence Rules) Wrong Format File submitted was in the alphabetical heading format of the Old Sequence Rules. This is invalid since the "Requirements for Patent Applications Containing Nucleotide Sequence and/or Amino Acid Disclosures" Federal Register Notice, Vol. 63, No. 104, June 1, 1998, p. 29620 applies to applications filed on or after July 1, 1998. AKS-Biotechnology Systems Branch- 7/10/98



#### **RAW SEQUENCE LISTING** PATENT APPLICATION US/08/962,560

DATE: 02/26/1999 TIME: 14:56:37

Alexande

Viney, E

Willson,

Richards

Starr, R

Nicholso

Metcalf,

Nicola,

INPUT SET: S30840.raw

This Raw Listing contains the General Information Section and those Sequences containing ERRORS.

Corrected Diskette Needed Most over-sel iden-3 on Even furmany sheet SEQUENCE LISTING 2 (1) General Information: 3 4 (i) APPLICANT: 5 6 7 8 9 10 11 12 13 14 (ii) TITLE OF INVENTION: THERAPEUTIC AND DIAGNOSTIC AGENTS 15 16 (iii) NUMBER OF SEQUENCES: 50 17 18 (iv) CORRESPONDENCE ADDRESS: 19 (A) ADDRESSEE: Scully, Scott, Murphy & Presser 20 (B) STREET: 400 Garden City Plaza 21 (C) CITY: Garden City, New York 22 (D) STATE: New York 23 (E) COUNTRY: U.S.A. 24 (F) ZIP: 11530 25 26 (v) COMPUTER READABLE FORM: 27 (A) MEDIUM TYPE: Floppy disk 28 (B) COMPUTER: IBM PC compatible 29 (C) OPERATING SYSTEM: PC-DOS/MS-DOS 30 (D) SOFTWARE: PatentIn Release #1.0, Version #1.25 31 12 urrent application data: Lelete
(a) application number: \text{\text{us application no.}} 08/962,560 (vi) CURRENT APPLICATION DATA: 33 --> 34 (B) FILING DATE: 31-OCT-1997 35 36 (Vii) Luit PRIOR APPLICATION DATA: 37 (A) APPLICATION NUMBER: PCT/AU97/00729 38 (B) FILING DATE: 31-OCT-1997 39 40 (vii) (vi) PRIOR APPLICATION DATA: 41 (A) APPLICATION NUMBER: PO5117 42 (B) FILING DATE: 14-FEB-1997 43 44 (vii) PRIOR APPLICATION DATA: 45

### RAW SEQUENCE LISTING PATENT APPLICATION US/08/962,560

DATE: 02/26/1999 TIME: 14:56:37

INPUT SET: S30840.raw

(A) APPLICATION NUMBER: PO 3384
(B) FILING DATE: 01-NOV-1996
(viii) ATTORNEY/AGENT INFORMATION:
(A) NAME: DiGiglio, Frank S.
(B) REGISTRATION NO: 31,346
(C) REFERENCE/DOCKET NUMBER: 10976
(ix) TELECOMMUNICATION INFORMATION:
(A) TELEPHONE: (516) 742-4343
(B) TELEFAX: (516) 742-4366
(C) TELEX:

# ERRORED SEQUENCES FOLLOW:

	61 62	(2) INFORMATION FOR SEQ ID NO:1:	
	63	(i) SEQUENCE CHARACTERISTICS:	
	64	(A) LENGTH: 20 base pairs	
>	65	(B) TYPE: nucleic acid	
	66	(C) STRANDEDNESS: single	
	67	(D) TOPOLOGY: linear	
	68	(D) TOPOLOGI: TIMEAL	
	68 69	(ii) MOLECULE TYPE: DNA	
	70	(II) MONBOOM IIII. DAM	. 1
	70 71	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1:	Dh sequerer
	71 72	(XI) SECONNCE DESCRIPTION: DAY IS NOTE:	a la
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	77	(2) INFORMATION FOR SEQ ID NO:2:	20 - Ruba inset Cumulature base Adal at neft manying sock
	77 78		line
		(i) SEQUENCE CHARACTERISTICS:	line
>	78	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 20 base pairs	line
>	78 79	<ul><li>(i) SEQUENCE CHARACTERISTICS:</li><li>(A) LENGTH: 20 base pairs</li><li>(B) TYPE: nucleic acid</li></ul>	line
>	78 79 <b>80</b>	<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 20 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: single</li> </ul>	line
>	78 79 <b>80</b> 81	<ul><li>(i) SEQUENCE CHARACTERISTICS:</li><li>(A) LENGTH: 20 base pairs</li><li>(B) TYPE: nucleic acid</li></ul>	bre
>	78 79 <b>80</b> 81 82	(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 20 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: single  (D) TOPOLOGY: linear	
>	78 79 <b>80</b> 81 82 83	<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 20 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: single</li> </ul>	
>	78 79 80 81 82 83	(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 20 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: single  (D) TOPOLOGY: linear  (ii) MOLECULE TYPE: DNA	
>	78 79 80 81 82 83 84 85	(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 20 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: single  (D) TOPOLOGY: linear	
>	78 79 80 81 82 83 84 85 86	(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 20 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: single  (D) TOPOLOGY: linear  (ii) MOLECULE TYPE: DNA  (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2:	
>	78 79 80 81 82 83 84 85 86 87	(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 20 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: single  (D) TOPOLOGY: linear  (ii) MOLECULE TYPE: DNA	same enn
>	78 79 80 81 82 83 84 85 86 87	(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 20 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: single  (D) TOPOLOGY: linear  (ii) MOLECULE TYPE: DNA  (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2:	

## RAW SEQUENCE LISTING PATENT APPLICATION US/08/962,560

DATE: 02/26/1999 TIME: 14:56:38

	92	(2) INFORMATION FOR SEQ ID NO:3:
	93	
	94	(i) SEQUENCE CHARACTERISTICS:
>	95	(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 1236 base pairs /235 Loui
	96	(b) Tife: nucleic acid
	97	(C) STRANDEDNESS: single
	98	(D) TOPOLOGY: linear
	99	
	100	(ii) MOLECULE TYPE: DNA
	101	(1.5)
	102	(ix) FEATURE:
	103	(A) NAME/KEY: CDS
	104	(B) LOCATION: 1636 W/ 1/ X22 / 1/ Jegvere Rulez
	105	
	106	(vi) GROTIPNOR DESCRIPTION, GEO TO NO.3. "The humeration of sucholide
	107 108	LAW start of the first have
	108	of all world 1. ~
>	110	(XI) SEQUENCE DESCRIPTION: SEQ ID NO:3: Les republishent of such fore CGAGGCTCAA GCTCCGGGCG GATTCTGCGT GCCGCTCTCG CTCTTGGGC TCTGTGGCC (101) 60
>	111	
•	112	GGCCTGTGCC ACCCGGACGC CCGGCTCACT GCCTCTGTCT CCCCCATCAG CGCAGCCCCG (-41)/20
>	113	GACGCTATGG CCCACCCCTC CAGCTGGCCC CTCGAGTAGG do Not un tente (-1) 160 regalification for both (-1) 160
-	114	adulturate total
	115	region or law
>	116	ATG GTA GCA CGC AAC CAG GTG GCA GCC GAC AAT GCG ATC TCC CCG GCA (48)
	117	Met Val Ala Arg Asn Gln Val Ala Ala Asp Asn Ala Ile Ser Pro Ala
	118	1 5 10 15
	119	,
	120	GCA GAG CCC CGA CGG CGG TCA GAG CCC TCC TCG TCC TCG TCT TCG TCC 96
	121	Ala Glu Pro Arg Arg Ser Glu Pro Ser Ser Ser Ser Ser Ser
	122	20 25 30 NI-MINIO
	123	
	124	TCG CCA GCG GCC CCC GTG CGT CCC CGG CCC TGC CCG GCG G
	125	Ser Pro Ala Ala Pro Val Arg Pro Arg Pro Cys Pro Ala Val Pro Ala
	126	35 40 45
	127	Ala Glu Pro Arg Arg Arg Ser Glu Pro Ser
	128 129	Pro Ala Pro Gly Asp Thr His Phe Arg Thr Phe Arg Ser His Ser Asp
	130	50 55 60
	131	
	132	TAC CGG CGC ATC ACG CGG ACC AGC GCG CTC CTG GAC GCC TGC GGC TTC 240
÷	133	Tyr Arg Arg Ile Thr Arg Thr Ser Ala Leu Leu Asp Ala Cys Gly Phe
	134	65 70 75 80
	135	
	136	TAT TGG GGA CCC CTG AGC GTG CAC GGG GCG CAC GAG CGG CTG CGT GCC 288
	137	Tyr Trp Gly Pro Leu Ser Val His Gly Ala His Glu Arg Leu Arg Ala
	138	85 90 95
	139	
	140	GAG CCC GTG GGC ACC TTC TTG GTG CGC GAC AGT CGT CAA CGG AAC TGC 336
	141	Glu Pro Val Gly Thr Phe Leu Val Arg Asp Ser Arg Gln Arg Asn Cys
	142	100 105 110 `
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## RAW SEQUENCE LISTING PATENT APPLICATION US/08/962,560

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144	TTC TTC G	ירה כדר	AGC GTG	AAG AT	GCT	TCG	GGC	CCC	ACG	AGC	ATC	CGC	384
145	Phe Phe A												
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148	GTG CAC T	<b>ም</b> ሮ ሮእር	acc acc	רכר יייי	י כאַכ	ጥጥር	GAC	ccc	AGC	רפר	GAG	ACC	432
149	Val His P												
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153	Phe Asp C												
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155	143		130				1,,,					100	
156	CGC ATG T	ידים מממ	GCC CCG	כידום כים	י ראם	רפר	CGC	GTG	CGG	CCG	CTG	CAG	528
157	Arg Met L	.Au Clv	Ala Pro	Ten Ar	r Gln	Ara	Ara	Val	Ara	Prō	Len	Gln	
158	Arg Mec D	eu Gry	165	neu mi	9 0111	170		***	9		175		
159			103			1,0							
160	GAG CTG T	ימיי רמר	CAG CGC	ልጥሮ ርጥ	3 GCC	GCC	CTC	CCT	רפר	GAG	AAC	ርጥር	576
161	Glu Leu C	are year	Cln Ara	Tle Va	3 GCC	Δla	Val	Glv	Ara	Glu	Δan	Leu	3,0
162	Gid Ded C	ys Alg 180	GIII AIG	TIE VA	185		Val	GLy	m 9	190			
163	GCG CGC A		מיייי אאמ	ሮሮር ርጥ			GAC	TAC	CTG			ጥጥር	624
164	Ala Arg I												021
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167	CCC TTC C	יאם איים	TCA CCG	בריים רר	こしかにか	מככ נ	בראמ	'' ውጥ ልግ	ΔΔ Gr	raca	ממרמי	-	676
168	Pro Phe G			عجبو حب	34141		٠ٻ٠٠٠	· .	, ,	ĻOĢO.	<del>,</del> oçu,	7	3,3
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173	GCCTGGGTC	ra azaaa	ያ ያ	тстссас	за та	AGAT	<b>ታ</b> ሮሮም	CCC	ACTT	TTG (	GCTGC	BAGACO	796
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175	TCATCCCAC	יר ידרידרא	AGGGGT G	GGGTGC	rc cc	CTCC'	TGGT	GCT	CCCT	CCG (	GĠTC	cccci	856
176													
177	GGTTGTAGC	A GCTTG	TGTCT G	GGCCAG	GA CC	TGAA'	TTCC	ACT	CCTA	CCT	CTCC	ATGTTT	916
178													
179	ACATATTCC	C AGTAT	CTTTG C	ACAAACC.	AG GG	GTCG	GGGA	GGG'	TCTC:	rgg (	CTTC	ATTTTI	976
180													
181	CTGCTGTGC	A GAATA	TCCTA T	TATATT	rr tr	ACAG	CCAG	TTT	AGGT	AAT	AAAC'	rtatt	1036
182										1			
183	ATGAAAGTT	TTTTI	TAAAA G	AAAAAA	AA AA	AAAA	AAA						1075
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569			LENGTH				3	<i>^</i> ^ .	\	. مر			.00.
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## RAW SEQUENCE LISTING PATENT APPLICATION US/08/962,560

					INPUT SET	T: S30840.raw	
>	575	(xi)	SEQUENCE DESCRIPTION:	SEQ ID NO:9:			
	576					a.a .a	
	577		CCCCTTCTGT AGGATGGTAG				
	578		AGCAGAGCCC CGACGGCGGC				
	579		CGCGCGCCCG CGGCCGTGCC				
	580		CACATTCCGT TCGCACGCCG				
	581		CTGCGGATTC TACTGGGGGC				
	582		GCCCGTGGGC ACCTTCCTGG				
	583		CGTGAAGATG GCCTCGGGAC				
	584		CCTGGATGGC AGCCGCGAGA				
	585		GGCGCCGCGC CGCATGCTGG			•	
	586		GCTGTGCCGC CAGCGCATCG				600
	587		CAACCCCGTC CTCCGCGACT				
	588		CGCCGTGCAC GCAGCATTAA				
	589		ATGTGGGTAC CCTCCCGGC				
	590		TCCCGCCCTC GGCTGGAGAC				
	591		CCCTCCTGGT GCTCCCTCTG				
	592		CCAGGACCTG AACTCGCACC				
	593		CAAACCAGGG GTTGGGGGAG				
	594		TATATTTTT AAAGTCAGTT	TAGGTAATAA AC	CTTTATTAT GAAAGTT		
	595	AAAATTTTTT	AAAA			1094	
	596						
<del></del>	652	(2) INFORM	ATION FOR SEQ ID NO:11	•			
	653	(2) INFORM	ATION FOR SEQ ID NO.TI				_
	654	(;)	SEQUENCE CHARACTERIST	TCQ.		1	$\alpha$
	655	(1)	(A) LENGTH: 2807 ba	se naire		or seq.	4
	656		(B) TYPE: nucleic a	cid /	ume	0	
	657		(D) TOPOLOGY: linea	r	same eno		
	658		(D) TOPOLOGI. IIIlea	<b>.</b>	·		
	659						
		(11)	MOTECULE TVDE . protei				
>		(ii)	MOLECULE TYPE: protei				
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	660 <b>661</b>		MOLECULE TYPE: <del>protei</del> SEQUENCE DESCRIPTION:	n ·			
	660 <b>661</b> 662		-	n ·			
	660 <b>661</b> 662 663	(xi)	SEQUENCE DESCRIPTION:	SEQ ID NO:11:	:		
	660 <b>661</b> 662 663 664	(xi)	SEQUENCE DESCRIPTION: GCGGGGGAGAC CAGGAGGCCT	SEQ ID NO:11:	: CTTCAGAGT CGCGTGG	CAG 60	
	660 <b>661</b> 662 663 664 665	(xi) GGAAACCGAG CAAACAGAGA	SEQUENCE DESCRIPTION: GCGGGGAGAC CAGGAGGCCT AACCTGTAGA GGGCAGTGTG	SEQ ID NO:11: TGGCCTCAGA GC	: CTTCAGAGT CGCGTGG CCAGGGAAG CTGCACG	CAG 60 CGA 120	
	660 661 662 663 664 665	(xi) GGAAACCGAG CAAACAGAGA AACTCACCCG	SEQUENCE DESCRIPTION:  GCGGGGAGAC CAGGAGGCCT AACCTGTAGA GGGCAGTGTG CCTTCATTCA TAAACATCGT	SEQ ID NO:11:  TGGCCTCAGA GO CGTCACTTAG CT CAGCTAGGCA CO	: CTTCAGAGT CGCGTGG CCAGGGAAG CTGCACG CTACTCCTG GGCTTTC	CAG 60 CGA 120 AGG 180	
	660 661 662 663 664 665 666	(xi)  GGAAACCGAG CAAACAGAGA AACTCACCCG ACAAACTGAA	SEQUENCE DESCRIPTION:  GCGGGGAGAC CAGGAGGCCT AACCTGTAGA GGGCAGTGTG CCTTCATTCA TAAACATCGT TCACGAAACC ACAGTGTCCT	TGGCCTCAGA GC CGTCACTTAG CT CAGCTAGGCA CC TAAAATAGGT CT	CTTCAGAGT CGCGTGG CCAGGGAAG CTGCACG CTACTCCTG GGCTTTC CGACCGCCT GAATCCC	CAG 60 CGA 120 AGG 180 TGG 240	
	660 661 662 663 664 665 666 667 668	(xi)  GGAAACCGAG CAAACAGAGA AACTCACCCG ACAAACTGAA CCAAGGTGTG	SEQUENCE DESCRIPTION:  GCGGGGAGAC CAGGAGGCCT AACCTGTAGA GGGCAGTGTG CCTTCATTCA TAAACATCGT TCACGAAACC ACAGTGTCCT TACGGGGCAT GGGAGCCCTT	TGGCCTCAGA GC CGTCACTTAG CT CAGCTAGGCA CC TAAAATAGGT CT GTGCAGAGAT GC	CTTCAGAGT CGCGTGG CCAGGGAAG CTGCACG CTACTCCTG GGCTTTC CGACCGCCT GAATCCC CTTGCAGGA GCCTTGA	CAG 60 CGA 120 AGG 180 TGG 240 GGG 300	
	660 661 662 663 664 665 666 667 668 669	(xi)  GGAAACCGAG CAAACAGAGA AACTCACCCG ACAAACTGAA CCAAGGTGTG GCTCTGTAAG	GCGGGGAGAC CAGGAGGCCT AACCTGTAGA GGGCAGTGTG CCTTCATTCA TAAACATCGT TCACGAAACC ACAGTGTCCT TACGGGGCAT GGGAGCCCTT ACAGAGGCTA GGAAGACAAA	TGGCCTCAGA GC CGTCACTTAG CT CAGCTAGGCA CC TAAAATAGGT CT GTGCAGAGAT GC GTTGGGGGCT AC	CTTCAGAGT CGCGTGG CCAGGGAAG CTGCACG CTACTCCTG GGCTTTC CGACCGCCT GAATCCC CTTGCAGGA GCCTTGA CAGCTTCTT GTCCTGC	CAG 60 CGA 120 AGG 180 TGG 240 GGG 300 CCG 360	
	660 661 662 663 664 665 666 667 668 669 670	(xi)  GGAAACCGAG CAAACAGAGA AACTCACCCG ACAAACTGAA CCAAGGTGTG GCTCTGTAAG GGGCCTCAGT	GCGGGGAGAC CAGGAGGCCT AACCTGTAGA GGGCAGTGTG CCTTCATTCA TAAACATCGT TCACGAAACC ACAGTGTCCT TACGGGGCAT GGGAGCCCTT ACAGAGGCTA GGAAGACAAA TTCTTCGGTT GCCCACGTAG	TGGCCTCAGA GC CGTCACTTAG CT CAGCTAGGCA CC TAAAATAGGT CT GTGCAGAGAT GC GTTGGGGGCT AC GAGTGCAGAG AC	CTTCAGAGT CGCGTGG CCAGGGAAG CTGCACG CTACTCCTG GGCTTTC FGACCGCCT GAATCCC CTTGCAGGA GCCTTGA CAGCTTCTT GTCCTGC CTCCAGCCC CTGGGGA	CAG 60 CGA 120 AGG 180 TGG 240 GGG 300 CCG 360 CCC 420	
	660 661 662 663 664 665 666 667 668 669 670	(xi)  GGAAACCGAG CAAACAGAGA AACTCACCCG ACAAACTGAA CCAAGGTGTG GCTCTGTAAG GGGCCTCAGT AACCCAACCC	GCGGGGAGAC CAGGAGGCCT AACCTGTAGA GGGCAGTGTG CCTTCATTCA TAAACATCGT TCACGAAACC ACAGTGTCCT TACGGGGCAT GGGAGCCCTT ACAGAGGCTA GGAAGACAAA TTCTTCGGTT GCCCACGTAG CGCCCAGTTT CCGAGGAACT	TGGCCTCAGA GCCGTCACTTAG CTCAGCTAGGCA CCTAAAATAGGT CTGTGCAGAGAT GCGTTGGGGGCT ACGAGTGCAGAG ACGCGTCCGGGAG CCGTCCGGGAG CCGTCCGGAGAG CCGTCCGAGAG CCGTCCCGGAGAG CCGTCCCGGAGAG CCGTCCCGGAGAG CCGTCCCGGAGAG CCGTCCCGGAGAG CCGTCCCGGAGAG CCGTCCCGCAGAGAG CCGTCCCAGAGAG CCGTCCCAGAGAG CCGTCCCAGAGAGAG CCGTCCCAGAGAGAG CCGTCCCAGAGAGAG CCGTCCCAGAGAG CCGTCCCAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGA	CTTCAGAGT CGCGTGGGCTACTCCTG GGCTTTCCTGCAGGA GCCTTGACCGCTTGCAGCACTCCTGGGGAGGGGGGGCGCC CCTCCGGGGAGGGGGGGGCGCC CCTCCCGGGGAGGGGGGGCGCC CCTCCCGGGGAGGGGGGGGCGCC CCTCCCGG	CAG 60 CGA 120 AGG 180 TGG 240 GGG 300 CCG 360 CCC 420 CAC 480	
	660 661 662 663 664 665 666 667 668 669 670 671	(xi)  GGAAACCGAG CAAACAGAGA AACTCACCCG ACAAACTGAA CCAAGGTGTG GCTCTGTAAG GGGCCTCAGT AACCCAACCC	GCGGGGAGAC CAGGAGGCCT AACCTGTAGA GGGCAGTGTG CCTTCATTCA TAAACATCGT TCACGAAACC ACAGTGTCCT TACGGGGCAT GGGAGCCCTT ACAGAGGCTA GGAAGACAAA TTCTTCGGTT GCCCACGTAG CGCCCAGTTT CCGAGGAACT TTCCTTTGAA GCCTCTGCGG	TGGCCTCAGA GCCGTCACTTAG CTCAGCTAGGCA CCTAAAATAGGT CTGGGGGCT ACGGGGGCT ACGGGGGGGGGG	CTTCAGAGT CGCGTGG CCAGGGAAG CTGCACG CTACTCCTG GGCTTTC CGACCGCCT GAATCCC CTTGCAGGA GCCTTGAC CAGCTTCTT GTCCTGC CTCCAGCCC CTGGGGAC CGGGGGCGCC CCTCCCGC	CAG 60 CGA 120 AGG 180 TGG 240 GGG 300 CCG 360 CCC 420 CAC 480 AGC 540	
	660 661 662 663 664 665 666 667 668 669 670 671 672	(xi)  GGAAACCGAG CAAACAGAGA AACTCACCCG ACAAACTGAA CCAAGGTGTG GCTCTGTAAG GGGCCTCAGT AACCCAACCC	GCGGGGAGAC CAGGAGGCCT AACCTGTAGA GGGCAGTGTG CCTTCATTCA TAAACATCGT TCACGAAACC ACAGTGTCCT TACGGGGCAT GGGAGCCCTT ACAGAGGCTA GGCACGTAG CCCCAGTTT CCGAGGAACT TTCCTTTGAA GCCTCTGCGG CCGAGTGGCC AACGGAGGG	TGGCCTCAGA GCCGTCACTTAG CTCAGCTAGGCA CCTAAAATAGGT CTGGGGGCT ACGGGGGGGGGG	CTTCAGAGT CGCGTGG CCAGGGAAG CTGCACG CTACTCCTG GGCTTTC CGACCGCCT GAATCCC CTTGCAGGA GCCTTGAC CAGCTTCTT GTCCTGC CTCCAGCCC CTGGGGAC CGGGGGCGCC CCTCCCGC CTTCCTGGG AAGCCCA	CAG 60 CGA 120 AGG 180 TGG 240 GGG 300 CCG 360 CCC 420 CAC 480 AGC 540 GCG 600	
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	660 661 662 663 664 665 666 667 668 669 670 671 672 673 674	(xi)  GGAAACCGAG CAAACAGAGA AACTCACCCG ACAAACTGAA CCAAGGTGTG GCTCTGTAAG GGGCCTCAGT AACCCAACCC	GCGGGGAGAC AACCTGTAGA CCTTCATTCA TCACGAAACC TACGGGGCAT ACAGAGGCCT TACGGGGCAT ACAGAGGCTA GGGAGCCCTT ACAGAGGCTA GGAAGACAAA TTCTTCGGTT CGCCCAGTTT CCGAGGAACC TCCCTTGCGG CCGAGTGGCC TCTCCAGGGC TCTCCAGGGC TCCCAGGAGGA TCCTGCGGG	TGGCCTCAGA GCCGCCAGCAGAGAGAGAGAGAGAGAGTGCAGAGAGAGAG	CTTCAGAGT CGCGTGG CCAGGGAAG CTGCACGC CTACTCCTG GGCTTTCC CTTGCAGGA GCCTTGAC CAGCTTCTT GTCCTGCC CTCCAGCCC CTGCGGAA CAGCTCCTGGG AAGCCCA CTTCCTGGA GAGGCCG CTTCCTGGA GAGGCCG CTTCCTGGA GAGGCCGAAGGCGGGGGGAGACTG CCAAGGCC CGGGGGGAACTG GGGGGGGAA	CAG 60 CGA 120 AGG 180 TGG 240 GGG 300 CCG 360 CCC 420 CAC 480 AGC 540 GCG 600 CTT —— AAG 720	
	660 661 662 663 664 665 666 667 668 669 670 671 672 673 674 675	(xi)  GGAAACCGAG CAAACAGAGA AACTCACCCG ACAAACTGAA CCAAGGTGTG GCTCTGTAAG GGGCCTCAGT AACCCAACCC	GCGGGGAGAC AACCTGTAGA CCTTCATTCA TCACGAAACC TACGGGGCAT ACAGGGGCCT ACAGGAGGCCT TACGGGGCAT ACAGTGTCCT ACAGAGGCTA GGGAGCCCTT ACAGAGGCTA CCCACGTAG CCCACGTAG CCCACGTAG CCGAGTGGCC TCTCCTTGAA CCTCTTCGGT TCCTTTGAA CCTCTGCGG CCAGGTAGCC TCTCCAGGGC TCTCCAGGGC TCTCCAGGGC CCGGTGGAGGC CTGACCAGGA	TGGCCTCAGA GCCGTCACTTAG CTCAGCTAGGCA CCTAAAATAGGT CTGGGGGCT ACGGGGGGG CGCGCGCGCG GAGGCTCCTAGA GCCCCGCGCGC GAGGGGGTTGC TTGAATGCACA ACGGAGGGGTTGC TTGAATGCACA ACGGAGGGGTTGC TTGAATGCACA ACGGAGGAGTTGC TTGAATGCACAC ACGGCCACAC ACGAGGAGTTGC TTGAATGCACAC ACGGCCACAC ACGAGGAGTTGC TTGAATGCACAC ACGGCCACAC ACGAGGAGTTGC TTGAATGCACAC ACGGAGAGTTGC TTGAATGCACAC ACGGAGAGTTGC TTGAATGCACAC ACGGCCCACAC ACGAGAGATTGC TTGAATGCACAC ACGAGAGTTGC TTGAATGCACAC ACGAGAGTTGC TTGAATGCACAC ACGAGAGTTGC TTGAATGCACAC ACGAGAGATTGC TTGAATGCACAC ACGAGAGTTGC TTGAATGCACACAC ACGAGAGATTGC TTGAATGCACACACACACACACACACACACACACACACAC	CTTCAGAGT CGCGTGG CCAGGGAAG CTGCACG CTACTCCTG GGCTTTC CTGCAGGA GCCTTGAC CAGCTCCTT GTCCTGC CTCCAGCC CTGGGGA CTCCTGGG AAGCCCA ATTCTGGAG GAGGGCG CGGAGACTG CCAAGGC CTGGGGGGGTG GGGGGGGA CTCGGAGGCG CTCCGGAGGCG CTCGGAGGCG CTCGGAGGCG CGGGGGGGGGG	CAG 60 CGA 120 AGG 180 TGG 240 GGG 300 CCG 360 CCC 420 CAC 480 AGC 540 GCG 600 CTT —— AAG 720 CGT 780	
	660 661 662 663 664 665 666 667 668 669 670 671 672 673 674 675 676	GGAAACCGAG CAAACAGAGA AACTCACCCG ACAAACTGAA CCAAGGTGTG GCTCTGTAAG GGGCCTCAGT AACCCAACCC	GCGGGGAGAC AACCTGTAGA CCTTCATTCA TCACGAAACC TACGGGGCAT ACAGAGGCCT ACAGAGGCCT TACGGGGCAT ACAGAGGCTA GGGAGCCCTT ACAGAGGCTA GGCACGTAG CCCCAGTTT CCGCCAGTTT CCGAGGAACC TCCCTTCGGG CCGAGTGGC TCTCCAGGGC TCTCCAGGGC TCCCAGGAGACC AACGGGAGGG CCGGTGGAGC CCGAGTAGCCGGGAGACGA CCGAGTAGCC CCGCCGGGG	TGGCCTCAGA GCCGCCAGCTAGAAATAGGT CTCAGGCCACC GCGCGCGCGCGCGCGCGCGCGCGCGCGCGC	CTTCAGAGT CGCGTGG CTACTCCTG GGCTTTC. CTGCAGGA GCCTTGAC CTTGCAGGA GCCTTGAC CTCCAGCC CTGGGGAC CTCCTGGG AAGCCCA ATTCTGGAG GAGGCGC CTGGGGAGACTG CCAAGGCC CTGGGGGAGACTG CCAAGGCC CTGGGGGAGACTG GGGGGGGAGACTG GGGGGGGAGACTG GGGGGGGAGACTG GAGGAGGCCGCGGGGGGGAGACTG GAGGAGGCGGGGGGGAAGGCCCAAGGCCAAGCCCAAGGCCAAGGCCCAAGGCCCAAGGCCCAAGGCCCAAGGCCCAAGGCCCAAGGCCCAAGGCCCAAGGCCCAAGGCCCAAGGCCCAAGGCCCAAGGCCAAGGCCAAGAAG	CAG 60 CGA 120 AGG 180 TGG 240 GGG 300 CCC 420 CAC 480 AGC 540 GCG 600 CTT —— AAG 720 CGT 780 GAG 840	
	660 661 662 663 664 665 666 667 668 669 670 671 672 673 674 675 676	GGAAACCGAG CAAACAGAGA AACTCACCCG ACAAACTGAA CCAAGGTGTG GCTCTGTAAG GGGCCTCAGT AACCCAACCC	GCGGGGAGAC AACCTGTAGA CCTTCATTCA TCACGAAACC TACGGGGCAT ACAGAGGCCT ACAGAGGCCT TACGGGGCAT ACAGAGGCTA GGGAGCCCTT ACAGAGGCTA GGCACGTAG CCCACGTAG CCCACGTTT CCCTTTGAA CCCACGTAG CCGAGTGGCC TCTCCAGGGC TCTCCAGGGC TCTCCAGGGC TCTCCAGGGC TCTCCAGGGC CGGTGGAGGC CCGCTGGCGG CCACCTAGCCGGGG CCACCAGGAACC CCACCCGGGG CCACCAGGAACC CCACCCGGGG GGCACCAGGAACC	TGGCCTCAGA GCCGTCACTTAG CTCAGCTAGGCA CCTAGAGAT GCCTCGGGAG CCCCGCGCGC GAGCTCCTAGA GCCCCGCGCGC GAGCTCCTAGA GCCCCCCGCGCC GAGCTCCTAGA GCCCCCCGCGCC GAGCTCCTAGA GCAGGAGTTCC TTGAATGCACA ACAGCAGCATC TGAATGCACAC ACAGCAGCATTCC GGAGAGATTCC GGAGAGATTCC GGAGAGATTCC GGAGAGATTCC GGAAGAGATTCC GGAAGAAGATTCC GGAAGAGATTCC GGAAGAAGATTCC GGAAGAAGATTCC GAAGAAGATTCC GAAGAAGAATTCC GAAGAAGAATTCC GAAGAAGAATTCC GAAGAAGAATTCC GAAGAAGAATTCC GAAGAAGAATTCC GAAGAAGAATTCC GAAGAAGAATTCC AAAAAAAAAA	CTTCAGAGT CGCGTGG CCAGGGAAG CTGCACG CTACTCCTG GGCTTTC CTGCAGGA GCCTTGAC CAGCTCCTT GTCCTGC CTCCAGCC CTGCGGAA CTCCTGGG AAGCCCA ATTCTGGAG GAGGGCG CGGAGACTG CCAAGGC CTGGGAGACTG GGGGGGAA CTCGGAGGC GAGGAGGC CTGGGAGACTG GAGGAGGC CTGGGAGACTG GAGGAGGC CTGGGAGACTG GAGGAGGC CTGGGAGACTG GAGGAGGC CTGGGAGACCA CTCGGAGGC AAGACCCA CTACAGACCA CTCGGAGGC AAGACCCA CTACAGACCA CTACACAC CT	CAG 60 CGA 120 AGG 180 TGG 240 GGG 300 CCC 420 CAC 480 AGC 540 GCG 600 CTT AAG 720 CGT 780 GAG 840 CAG 900	
	660 661 662 663 664 665 666 667 668 669 670 671 672 673 674 675 676 677	GGAAACCGAG CAAACAGAGA AACTCACCCG ACAAACTGAA CCAAGGTGTG GCTCTGTAAG GGGCCTCAGT AACCCAACCC	GCGGGGAGAC AACCTGTAGA CCTTCATTCA TCACGAAACC TACGGGGCAT ACAGAGGCCT ACAGAGGCCT TACGGGGCAT ACAGAGGCTA GGGAGCCCTT ACAGAGGCTA GGCACGTAG CCCACGTAG CCCACGTAG CCCACGTAG CCGAGTGGCC TCCCAGGGC TCTCCAGGGC TCTCCAGGGC TCTCCAGGGC TCTCCAGGGC TCTCCAGGGC CGGTGGAGGC CCGCTGGCGG CCGCTGGCGG CCGCTGGCGG CCGCCAGGTAG CCCACGTAG CCCACGTAG CCCACGTAG CCCACGGGG CCCACGTAG CCCCACGGGG CCCACGTAG CCCCCGGGG CCCCCGGGG CCCCCCGGGG GCCACCAGGA CCACCCGGGG CCACCCGGGG CCACCCGGGG CCACCCGGGG CCACCCGGGG CCACCCGGGG CCACCGGAAAC CCACCGGGG	TGGCCTCAGA GCCGTCACTTAG CTCAGCTAGGCA CCTCAGAGAT GCGTCCGGGAG CCGCCGCGCGCGCGCGCGCGCGCGCGCGCGCG	CTTCAGAGT CGCGTGG CCAGGGAAG CTGCACG CTACTCCTG GGCTTTC CTGCAGGA GCCTTGAC CTGCAGGA GCCTTGAC CTCCAGCC CTGCGGA CTCCTGGG AAGCCCA CTTCTGGA GAGGCGA CTGCGAGACTG CCAAGGC CTGGGAGACTG GGGGGGAA CTCGGAGGC GAGGAGGC CTGGGAGACCC AGAACCCA CGGACCCTC TCCAGGG	CAG 60 CGA 120 AGG 180 TGG 240 GGG 300 CCC 420 CAC 480 AGC 540 GCG 600 CTT 4 AAG 720 CGT 780 GAG 840 CAG 900 GCA 960	
	660 661 662 663 664 665 666 667 668 669 670 671 672 673 674 675 676	GGAAACCGAG CAAACAGAGA AACTCACCCG ACAAACTGAA CCAAGGTGTG GCTCTGTAAG GGGCCTCAGT AACCCAACCC	GCGGGGAGAC AACCTGTAGA CCTTCATTCA TCACGAAACC TACGGGGCAT ACAGAGGCCT ACAGAGGCCT TACGGGGCAT ACAGAGGCTA GGGAGCCCTT ACAGAGGCTA GGCACGTAG CCCACGTAG CCCACGTTT CCCTTTGAA CCCACGTAG CCGAGTGGCC TCTCCAGGGC TCTCCAGGGC TCTCCAGGGC TCTCCAGGGC TCTCCAGGGC CGGTGGAGGC CCGCTGGCGG CCACCTAGCCGGGG CCACCAGGAACC CCACCCGGGG CCACCAGGAACC CCACCCGGGG GGCACCAGGAACC	TGGCCTCAGA GCCGTCACTTAG CTCAGCTAGGCA CGTGCAGAGAT GCGTCCGGGAG CGCCCGCGCGC GAGGCTCCTAGA GCCCGCGCGC GAGGAGTTCC GAATGCACAC ACCAGCTAGA GCAGCAGCTCC GCCCGCGCG GAACGAGTTCC GGAACGAGTTCC GGAACGAGTTAG GTCTGCCGGAA ACCAGCGTAGA GCCTTGCCGGAA ACCAGCGTAGA GCCTTGCCGGAA ACCAGCGTAGA GCCTTGCCGGAA ACCAGCGGAA ACCTAGCCGGAA ACCTAGCCGGAA ACCTAGCCGGAA ACCTAGCCGGAA ACCTAGCCGGAA ACCTAGCCGGAA ACCTAGCCGGAA ACCTACTCACTAGA GCCTTGCCGGAA ACCTAGCCGGAA ACCTAGCCGGAA ACCTACTCACTAGA GCCTTGCCGGAA ACCTACTCACTAGA GCCTTCACTAGA GCCTTCACTAGA GCCTTCACTAGA GCCTTCACTAGA GCCTTCACTAGA GCCTTCACTAGA GCCTTCACTAGA GCCTCACTAGA GCCTCAC	CTTCAGAGT CGCGTGG CCAGGGAAG CTGCACG CTACTCCTG GGCTTTC CTGCAGGA GCCTTGAC CTGCAGGA GCCTTGAC CTCCAGCC CTGCGGA CTCCTGGG AAGCCCA CTTCTGGA GAGGCGA CTGCGAGGCG GAGGAGACC CTGGGAGACC CCAAGGCC CTGGGAGACC CCAAGGCC CTGGGAGACC CCAAGGCC CGGAGACCC CAAGGCC CGGAGACCC AGAACCCC CGGACCCTC TCCAGGGC CGGACCCTC TCCAGGGC CGGACCCTC TCCAGGGC CAAGCCCC CAAGGCC CGGACCCTC TCCAGGGC CAAGAACCC CAAGAAACCC CAAGAAACCC CAAGAAACCC CAAGAAACCC CAAGAAACCC CAAGAAACCC CAAGAAACCC CAAGGCC CTCCAGGGC CTCCAGGC CTCCAGGC CTCCAGGC CTCCAGGC CTCCCAGGC CTC	CAG 60 CGA 120 AGG 180 TGG 240 GGG 300 CCC 420 CAC 480 AGC 540 GCG 600 CTT 47 AAG 720 CGT 780 GAG 840 CAG 900 GCA 960 CCG 1020	

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682	AGCAGAGAGA	ACTGCGGCCG	TGGCAGCGGC	ACGGCTCCCG	-	ATGCGCGACA	1140
683						GCCGAGGCAG	1200
684						CAGGACTATC	1260
685						CCACCGGCTG	1320
686						GCCCTGAGCC	1380
687						CGCGAGGCGG	1440
688						TTCTCCACGC	1500
689						GAACGGCCTA	1560
690						CACCCTCGCT	1620
691						CTCTGTCTCC	1680
692						CGAGTAGGAT	1740
						AGCCCCGACG	1800
693						CGCGTCCCCG	1860
694							1920
695						CCTTCCGCTC	1980
696						GCGGCTTCTA	
697						CCGTGGGCAC	2040
698						TGAAGATGGC	2100
699						TGGACGGCAA	2160
700						CGCCGCGCCG	2220
701						TGTGTCGCCA	2280
702						ACCCGGTACT	2340
703						TGCCCGCAGA	2400
704						CTGGAACCAC	2460
705						TCCCTCCCAC	2520
706						CTCCCTCCCG	2580
707						GCCTACCTCT	2640
708	CCATGTTTAC	ATGTTCCCAG	TATCTTTGCA	CAAACCAGGG	GTGGGGGAGG	GTCTCTGGCT	2700
709	TCATTTTTCT	GCTGTGCAGA	ATATTCTATT	TTATATTTT	ACATCCAGTT	TAGATAATAA	2760
710	ACTTTATTAT	GAAAGTTTTT	TTTTTTAAAG	AAACAAAGAT	TTCTAGA		2807
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913							
914	Met Ala Ser	r Phe Pro Pi	o Arg Val A	Asn Gly Lys	Glu Ile Val	l Arg Ser	
915	1	5		<b>/</b> 10		15	
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917	Arg Thr Ile	e Gly Glu Le	eu Leu Ala B	erø Ala Ala	Pro Phe Asp	Lys Lys	
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923	Phe Ala Trr	Ser Gln Gl	ly Tyr/Arg I	le Val Lys	Leu Val Pro	Trp Ser	
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926 927 928	Gln 65	Cys	Arg	Lys	Asn	Phe 70	Leu	Leu	His	Gly	Ser 75	Lys	Asn	Val	Thr	Asn 80	
929 930	Ser	Ser	Cys	Leu	Lys 85	Leu	Ala	Arg	Gln	Asn 90	Ser	Asn	Gly	Gly	Gln 95	Lys	
933	Asn	Lys	Pro	Pro 100	Glu	His	Val	Ile	Asp 105	Cys	Gly	Asp	Ile	Val 110	Trp	Ser	
934 935 936	Leu	Ala	Phe 115	Gly	Ser	Ser	Val	Pro 120	Glu	Lys	Gln	Ser	Arg 125	Суѕ	Val	Asn	
937 938 939	Ile	Glu 130	Trp	His	Arg	Phe	Arg 135	Phe	Gly	Gln	Asp	Gln 140	Leu	Leu	Leu	Ala	
940 941 942	Thr 145	Gly	Leu	Asn	Asn	Gly 150	Arg	Ile	Lys	Ile	Trp 155	Asp	Val	Tyr	Thr	Gly 160	
943 944 945	Lys	Leu	Leu	Leu	Asn 165	Leu	Val	Asp	His	Ile 170	Glu	Mex	Val	Arg	Asp 175	Leu	
946 947 948	Thr	Phe	Ala	Pro 180	Asp	Gly	Ser	Leu	Leu 185	Leu	vazl	Ser	Ala	Ser 190	Arg	Asp	
949 950 951	Lys	Thr	Leu 195	Arg	Val	Trp	Asp	Leu 200	Lys	Asp	Asp	Gly	Asn 205	Met	Val	Lys	
952 953 954	Val	Leu 210	Arg	Ala	His	Gln	Asn 215	Trp	val	Tyr	Ser	Cys 220	Ala	Phe	Ser	Pro	
955 956 957	Asp 225	Cys	Ser	Met	Leu	Cys 230	Ser	Va 1	Gly	Ala	Ser 235	Lys	Ala	Val	Phe	Leu 240	
958 959 960	Trp	Asn	Met	Asp	Lys 245	Tyr	Thr	Met	Ile	Arg 250	Lys	Leu	Glu	Gly	His 255	His	
961 962 963	His	Asp	Val	Val 260	Ala	Cys	Asp	Phe	Ser 265	Pro	Asp	Gly	Ala	Leu 270	Leu	Ala	
964 965 966	Thr	Ala	Ser 275	Tyr	Asp	thr	Arg	Val 280	Tyr	Val	Trp	Asp	Pro 285	His	Asn	Gly	
967 968 969	Asp	Leu 290	Leu	Met	<b>%</b> lu	Phe	Gly 295	His	Leu	Phe	Pro	Ser 300	Pro	Thr	Pro	Ile	
970 971 972	Phe 305	Ala	Gly	Gly	Ala	Asn 310	Asp	Arg	Trp	Val	Arg 315	Ala	Val	Ser	Phe	Ser 320	
973 974 975	His	Asp	Gly	Leu	His 325	Val	Ala	Ser	Leu	Ala 330	Asp	Asp	Lys	Met	Val 335		
976 977 978	Phe	Trp	Arg	Ile 340	Asp	Glu	Asp	Cys	Pro 345	Val	Gln	Val	Ala	Pro 350	Leu	Ser	·

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	2415														Glu				40
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	2423	AGT	TCT	GAT	CCT	CGT	TAC	ATC	CIG	AGC	CTC	AGT	TIC	CGA	TCA	CAG	93		144
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	2427														TTC				192
	2428	IIe		His	His	Thr	Arg		Glu	Hls	Tyr	Arg	_	Inr	Phe	ser	ьeu		
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	2431														GTA				240
	2432	Trp	Cys	His	Pro	Lys	Phe	Glu	Asp	Arg	Cys	Gln	Ser	Val	Val	Glu	Phe		

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	2433	65					70					75					80		
	2434				GCC													288	
	2435	Ile	Lys	Arg	Ala		Met	His	Ser	Lys		Gly	Lys	Phe	Leu		Phe		
	2436					85					90					95			
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	2442	TAT	CCA	GTG	TCC	CGA	TTC	AGC	AAT	GTC	AAA	TCC	CTC	CAG	CAC	CTT	TGC	384	
	2443	Tyr	Pro	Val	Ser	Arg	Phe	Ser	Asn	Val	Lys	Ser	Leu	Gln	His	Leu	Cys		
	2444			115					120					125					
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	2446	AGA																432	
	2447	Arg		Arg	Ile	Arg	Gln		Val	Arg	Ile	Asp		Ile	Pro	Asp	Leu		
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	3009 3010								
	3011								
	3012	(xi) SI	EQUENCE DESC	CRIPTION: SI	EQ ID NO:45	:			
	3013								
	3014	CCCTCTGGGC	AAGCCGCCCC	CCCCCCACCC	ATCTACCACA	CACACACACA	CACACACACA	60	
	3015								
	3016	CACACATTCA	GACCTTGGGG	CAAAAACAAA	GCAAAATAAC	AACAACAAAA	ACACTGCCTG	120	
	3017								
	3018	TGGAAAGTCC	TTACTTCAGG	AAGGTTGGCA	GATGAGGAGC	AAGGGAACAT	TTTATCAGGA	180	
	3019								
	3020	CTGCCACAAA	GGAGTCTTTT	TTTTTAATGG	TTTTTCAAGA	CAGGGTTTCT	CTGTATAGCC	240	
	3021								
	3022	CTGGCTGTCC	TGGAGCTCAC	TTTGTAGACC	AGGCTGGCCT	CGAACTCAGA	AATTCGCCTG	300	
	3023								
	3024	CCTCTGCCTC	CTGAGTGCTG	GGATTAAAGG	CGTGCAGCAC	CATGTCCAAC	TGGCATTTTC	360	
	3025								
	3026	TCAATTAAGG	TTCGTTCCTT	TCAGATAACT	CTAGGTTCTG	GGTCAAGCTG	ACACAAGGCT	420	
	3027								
	3028	ACACAGCACA	GTTTGTATGC	CACATTCAGT	TCAGAAGACA	CCCAACCTCC	CTGGAACTGG	480	
	3029								
	3030	AACTTATGCA	CATTTGTGAG	CTTCCACTTG	GGAGTGGGAA	CCTGAACTGG	GTCCTCTGCA	540	
	3031								
	3032	AGAGCAGCCG	TGCTCTTAAC	TGCTGAGCCA	TTTCAGCAGC	CTCACATCAG	AATTAAGTTA	600	
	3033	ground !!						1	7/11
->	3034	GAAATTAGCC					a gagctaagag	(660	וסטע
	3035	AAACAGGGAT	TCAAGACCAG	CTCTTGGCTA	CAGAGCCCGT	CCTGTCCTAG	GATGGGCTAC	(729)	92 <i>1</i>
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	3037	AAGAGACTAT	TTCAAAGCCA	TCCAAACAAC	AATAACTACA	ACAACAACAA	GGTTAAAATT	780	4
	3038								hunte
	3039	AGGCTGGGCA	CAGGGTACAC	ACCTTTAATG	CCAACACTCA	GGAGGCAGAG	GCAGGCTGAT	840	100011
	3040								AlV
	3041	CAGTGTGAGT	TTGAGTTCAA	CGTGGTCTAC	ATAGGGAGTT	CTAGGCCAGC	AGAGGTTACA	900	V
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	3043.	GTCTCTCTCT	CTCTCTCTCT	CTCTCTCTCT	CTCTCACACA	CACACACACA	CACACACA	960	
	3044	a.a.a.a.a.a.	CA CA CA CCCT	CCC2 MM2 MCC	C & MINIMARIA C	CC x m x x CCmm	manananan	1020	
	3045	CACACACACA	CACACACGGT	GGCATTATGG	GATTTTTTG	GGATAAGGTT	TCTCTGTCTA	1020	
	3046	CCCCTCCCAT	AGATTCACTC	<b>ጥርሞአርአርሞአር</b>	CCTACCCTTC	AACTCAGAGA	TCCCCCTCCC	1080	
	3047	GCCCIGGCAI	AGAIICACIC	IGIAGACIAG	GCIAGCCIIG	AAC I CAGAGA	recoccioce	1000	
	3048 3049	TOTOCOTOCO	AAGTGCTGGG	<b>аттатасстс</b>	TTGCACCACC	ACTGCCCAGC	$C\Delta CTTTCCC\Delta$	1140	
	3050	1010001000	AAGIGCIGGG	ATTATAGGIG	TIGCACCACC	ACTOCCCAGC	CACILIOUM		
	3050	יייייייייייייייייייייייייייייייייייייי	<b>ር</b> ጥጥ አጥር እ ልር እ	GGCTTTCGAG	GAGGTCAAAC	ттсаасасса	ACCTCTCCAT	1200	
	3052	IIIIIIOMACI	O I I I I I I I I I I I I I I I I I I I	00011100110	0.100101210				
	3052	GATAATGTAG	CTAATGATCA	AACGACACTC	AAAACTTAAC	CCTTAAAGCA	CACATCCACC	1260	
	3054	0	0111110111011						
	3055	AGACAGCGTG	CCCACTCGTA	GTTCCATTAC	TCAGGAGGCT	GAAGCAGGAG	GATGAAGGAC	1320	
	3056								
	3057	TAAGGCTTCA	GCAACCTAGG	GAGCCGCAGG	GGACAGTAGT	CTCAATCCCT	ACATTCTCCT	1380	
	3058	<del></del>							
	3059	GAACACAGGA	GCAGGAGTTC	AGGAAGGGTG	TCAAGGCCGC	TTACTGATCT	TAGGGCCTCA	1440	
	3060								
	3061	GGAATGACTA	GCTCAGGCAG	AGAGAGCAAA	GGTCTCCAGT	GGAGAAGTCT	ACACACACAC	1500	

# RAW SEQUENCE LISTING PATENT APPLICATION US/08/962,560

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INPUT SET: S30840.raw

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3062 3063	ACACACACAC	ACACACACAC	ACACACACAC	AGAATCCAAG	GCGATGACGT	CATCAAAGGG	1560
3064 3065	TTAATTCTAG	TCTGGGATGG	GGGGGAGGGT	GGGGCACGCA	GCTGTCAGGT	GGCTTTGGAA	1620
3066 3067	AAATAAACTG	CTGAAGAGTC	TGACGCCAGG	GAGTCCTGGG	AGGGACAAGA	GGTTACCCAC	1680
3068 3069	TCAAAGAGTG	TGCTCCACAA	AGCATGCGCG	CTTGTCCACG	TCTGGAGTCG	TCACTTATTT	1740
3070 3071	TTTGCCTGGA	TTCTTTGTAG	CCGGTGGGTT	CTCAAGGCGG	TAAGTGGTGT	GGCCGCCGTG	1800
3072 3073	GTCTGGGAGG	TGACGATAGG	GTTAATCGTC	CACAGAGCCC	AGGGGCGGAG	CGCGGGCGGG	1860
3074 3075	CGTCCGCAGC	CCCGCTGGAG	CCGGAAGCAG	TGGCTGGTCA	GGGGCGCTTC	TAGCCTTCCC	1920
3076 3077	<b>ጥልጥርጥርጥል</b> ርጥ	TCCACAGAGG	тстстсссас	CTAGGGGGAC	AGTGAGGTGC	GGGGTAGGGG	1980
3078 3079				CACGGTAAGG			2040
3080							
3081 3082				GGTGAAAGCA			2100
3083 3084				GGCATACACC			2160
3085 3086	AGGGAAAGAT	GATGCGCCTA	ACAGTCCTTT	CTGTCTCCAC	ACCACTCCAG	GGGACGATCC	2220
3087 3088	GGAGCTCAAC	TTTCAAAAGC	GAGACGCCCC	AGCAAGCCTG	TTTTGAGAAG	TTCTTCAGCG	2280
3089	GCTCTCCTCA	TGGGCCAGAC	GGCCCTGGCA	AGGGGCAGCA	GCAGCACCCC	TACCTCGCAG	2340
3090 3091	GCTCTGTACT	CGGACTTCTC	TCCTCCCGAG	GGCTTGGAGG	AGCTCCTGTC	TGCTCCCCCT	2400
3092 3093	CCTGACCTGG	TTGCCCAACG	GCACCACGGC	TGGAACCCCA	AGGATTGCTC	CGAGAACATC	2460
3094 3095	GATGTCAAGG	AAGGGGGTCT	GTGCTTTGAG	CGGCGCCCTG	TGGCCCAGAG	CACTGATGGA	2520
3096	GTCCGGGGGA	AACGGGGCTA	TTCGAGAGGT	CTGCACGCCT	GGGAGATCAG	CTGGCCCCTG	2580
3097 3098	GAGCAAAGGG	GCACACACGC	CGTGGTGGGC	GTGGCCACCG	CCCTCGCCCC	GCTGCAGGCT	2640
3099 3100	GACCACTATG	CGGCGCTTTT	GGGCAGCAAC	AGCGAGTCCT	GGGGCTGGGA	TATTGGGCGG	2700
3101 3102	GGAAAATTGT	ATCATCAGAG	TAAGGGCCTC	GAGGCCCCCC	AGTATCCAGC	TGGACCTCAG	2760
3103 3104	GGTGAGCAGC	TAGTGGTGCC	AGAGAGACTG	CTGGTGGTTC	TGGACATGGA	GGAGGGGACT	2820
3105 3106	CTTGGCTACT	CTATTGGGGG	CACGTACCTG	GGACCAGCCT	TCCGTGGACT	GAAGGGGAGG	2880
3107 3108	ACCCTCTATC	CCTCTGTAAG	TGCTGTTTGG	GGCCAGTGCC	AGGTCCGCAT	CCGCTACATG	2940
3109 3110	GGCGAAAGAA	GAGGTGAGAT	ACGGACTAGG	TGTGGGGAGA	TCACTACTCT	TGGCAATGGT	3000
3111 3112	TTGGGCTGGA	AACTCATGGT	TGGAGCACAG	GAAGTAGGCT	TCTTGTCACT	TTGGCCTGTC	3060
3113							
3114	ACTTAGATGG	CCTTGGATCT	AGCTTCACTC	CCAATCCCTA	TTGGATGTGA	TGCACAAATT	3120

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3115 3116	CAGAGCCTTT	GGGTCTCCCT	CAGCTGAGGT	GGCGGTGGAA	ATGGAGGAAG	AAGGAAGGGT	3180
3117	GCCTGAGCAG	GATCTCAAGT	TCAAGGATGC	CTGGAGTTGC	TTACTTACCT	TGTCTTCCTT	3240
3119 3120 3121	CTCTCTCCGC	AGTGGAGGAA	CCACAATCCC	TTCTGCACCT	GAGCCGCCTG	TGTGTGCGCC	3300
3122 3122 3123	ATGCTCTGGG	GGACACCCGG	CTGGGTCAAA	TATCCACTCT	GCCTTTGCCC	CCTGCCATGA	3360
3124 3125	AGCGCTATCT	GCTCTACAAA	TGACCCAGTA	GTACAGGGTG	TGCTGGCACC	CTACCGTGGG	3420
3126 3127	GACAGGTGGA	GAGGCACCCG	CTGGCCTAGA	CAACTTTAAA	AAGCTGGTGA	AGCTGGGGGG	3480
3128 3129	GGGGGGCTGG	ACCCCTTCAC	CTCCCCTTCT	CACAGGAGCA	AGACATATAG	AAATGATATT	3540
3130 3131	AAACACCATG	GCAGCCTGGG	ACAAAGAGGT	TTTTGAAGTA	AAAAATGAGA	TGTATTGTCA	3600
3132 3133	CAACCTGTTT	CATTATTGTT	TTTTGTTTTG	TTTTACACTC	CCCCACCCCA	GGCTAGAGCC	3660
3134 3135	CCATCACTGT	CTTAAGGAAT	TATGACAACC	CACAAAGCTC	AGGCCCAGGT	GTTTATTTCC	3720
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3138 3139	CTATCCCAGG	CCTCTTAGGG	TCTCATGTAT	ACCGAATTCA	GACCCGAAAG	CTCTGAATTT	3840
3140 3141	CTGCATCAGA	CATCCAGTAG	AACTTGGGAG	TGAAGCTAGA	GCCAAGGCCA	TCTAAGTGAC	3900
3142 3143	AGGCCAAAGT	GACACGAAGC	CCACTTCCTG	TGCTCCAACC	ATGAGTTTCC	AGCCCAAACC	3960
3144 3145		GATTTCACTT CACCTTGGTG					4020 4080
3146 3147	CTGGTCCCAA	CCATAATAGG	GCGGTGGAAA	CGGCTCAGGA	GGGTACAGCG	TGGATTAGGC	4140
3148 3149 3150	CACAAGATGG	GGCAGATGAT	GTCATCAGAA	GCATGTGACC	GGTGGGAGCA	GTTACTAAAC	4200
3151 3152	TTCTGGGCAA	CCTAGTCCAT	GCTATGCAGG	CAGGTAGAGG	GATGGGCAGT	GCTCATTGTT	4260
3153 3154	TGGCATTGAT	GATGTCCACA	AATTCAGGCT	TGAGAGATGC	GCCACCCACA	AGGAAGCCGT	4320
3155 3156	CCACGTCAGG	CTGGCTTGCC	AGCTCTTTGC	AGGTTGCTCC	AGTCACAGAA	CCTGTACCAG	4380
3157 3158	GAACAAGAAG	ACAGTTTGGT	CAGGTCTATG	ATCAGAACAC	TTAAGCCCCA	CCTCTCTGTG	4440
3159 3160	CAAGGCAGCC	TCAGTCTGTC	TTAGCCCATT	TCCGTCTTAG	CTAGAGCCAA	AGCCACTCAC	4500
3161 3162	CTCCATAAAT	GATCCGGGTG	CTCTGAGCCA	CCCCATCATT	GACATTGGAT	TTCAGCCATC	4560
3163 3164						CTAAGTAAGC	4620
3165 3166						GTTGAGTTTC	4680
3167	CAGAAAAGCC	CCGGGACCAG	AGAGTGGCAA	GGCTCCAATC	CCACCAGGCT	TGGAATGAAC	4740

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# RAW SEQUENCE LISTING PATENT APPLICATION US/08/962,560

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#### (2) INFORMATION FOR SEQ ID NO:14:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 421 amino acids
  - (B) TYPE: amino acid
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: protein

#### (xi) SEQUENCE DESCRIPTION: SEQ ID NO:14:

Met Ala Ser Phe Pro Pro Arg Val Asn Glu Lys Glu Ile Val Arg Ser

Arg Thr Ile Gly Glu Leu Leu Ala Pro Ala Ala Pro Phe Asp Lys Lys

Cys Gly Gly Glu Asn Trp Thr Val Ala Phe Ala Pro Asp Gly Ser Tyr

Phe Ala Trp Ser Gln Gly Tyr Arg Ile Val Lys Leu Val Pro Trp Ser

Gln Cys Arg Lys Asn Phe Leu Leu His Gly Ser Lys Asn Val Thr Asn

Ser Ser Cys Leu Lys Leu Ala Arg Gln Asn Ser Asn Gly Gly Gln Lys

Asn Lys Pro Pro Glu His Val Ile Asp Cys Gly Asp Ile Val Trp Ser

Leu Ala Phe Gly Ser Ser Val Pro Glu Lys Gln Ser Arg Cys Val Asn

Ile Glu Trp His Arg Phe Arg Phe Gly Gln Asp Gln Leu Leu Leu Ala 135

Thr Gly Leu Asn Asn Gly Arg Ile Lys Ile Trp Asp Val Tyr Thr Gly

Lys Leu Leu Leu Asn Leu Val Asp His Ile Glu Met Val Arg Asp Leu 170

Thr Phe Ala Pro Asp Gly Ser Leu Leu Val Ser Ala Ser Arg Asp

Lys Thr Leu Arg Val Trp Asp Leu Lys Asp Asp Gly Asn Met Val Lys 200 195

Val Leu Arg Ala His Gln Asn Trp Val Tyr Ser Cys Ala Phe Ser Pro 215

Asp Cys Ser Met Leu Cys Ser Val Gly Ala Ser Lys Ala Val Phe Leu 225

Trp Asn Met Asp Lys Tyr Thr Met Ile Arg Lys Leu Glu Gly His His 250

His Asp Val Val Ala Cys Asp Phe Ser Pro Asp Gly Ala Leu Leu Ala

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Thr Ala Ser Tyr Asp Thr Arg Val Tyr Val Trp Asp Pro His Asn Gly 280

Asp Leu Leu Met Glu Phe Gly His Leu Phe Pro Ser Pro Thr Pro Ile 290

Phe Ala Gly Gly Ala Asn Asp Arg Trp Val Arg Ala Val Ser Phe Ser 320

His Asp Gly Leu His Val Ala Ser Leu Ala Asp Asp Asp Lys Met Val Arg 335

Phe Trp Arg Ile Asp Glu Asp Cys Pro Val Gln Val Ala Pro Leu Ser 345

Asn Gly Leu Cys Cys Ala Phe Ser Thr Asp Gly Ser Val Leu Ala Ala 365

Gly Thr His Asp Gly Ser Val Tyr Phe Trp Ala Thr Pro Arg Gln Val 370

Pro Ser Leu Gln His Ile Cys Arg Met Ser Ile Arg Arg Val Met Ser 385

Thr Gln Glu Val Gln Lys Leu Pro Val Pro Ser Lys Ile Leu Ala Phe 415

Leu Ser Tyr Arg Gly Arg Mat Arg Arg Wal Wal Ala Phe 415

# SEQUENCE VERIFICATION REPORT PATENT APPLICATION US/08/962,560

DATE: 02/26/1999 TIME: 14:56:42

Line	Error	Original Text
Line  5 34 64 80 95 110 111 113 116	Mandatory Value Not Present Wrong application Serial Number Entered (20) and Calc. Seq. Length (0) differ Entered (20) and Calc. Seq. Length (0) differ Entered (1236) and Calc. Seq. Length (1235) differ # of Sequences for line conflicts w/ running total # of Sequences for line conflicts w/ running total # of Sequences for line conflicts w/ running total # of Sequences for line conflicts w/ running total	Original Text  (i) APPLICANT: (A) APPLICATION NUMBER: US APPLICATION NO. 0 (A) LENGTH: 20 base pairs (A) LENGTH: 20 base pairs (A) LENGTH: 1236 base pairs CGAGGCTCAA GCTCCGGGCG GATTCTGCGT GCCGC GGCCTGTGCC ACCCGGACGC CCGGCTCACT GCCTC GACGCTATGG CCCACCCCTC CAGCTGGCCC CTCGA ATG GTA GCA CGC AAC CAG GTG GCA GCC GAC A
575 661 907 995 2400 2467 3003 3034	Wrong Or Missing Strandedness Value Wrong Or Missing Strandedness Value Entered (421) and Calc. Seq. Length (422) differ Stop Codon at end of sequence removed - no error Entered (848) and Calc. Seq. Length (793) differ # of Sequences for line conflicts w/ running total Entered (4999) and Calc. Seq. Length (5000) differ # of Sequences for line conflicts w/ running total	<ul> <li>(xi) SEQUENCE DESCRIPTION: SEQ ID NO:9:</li> <li>(xi) SEQUENCE DESCRIPTION: SEQ ID NO:11:</li> <li>(A) LENGTH: 421 amino acids</li> <li>(2) INFORMATION FOR SEQ ID NO:15:</li> <li>(A) LENGTH: 848 base pairs</li> <li>AATTAAGCTA CCATGAAAAG AAGAGGAAAA GTGA</li> <li>(A) LENGTH: 4999 base pairs</li> <li>GAAATTAGCCG GGTATGAATC ATACCCTTAG AATC</li> </ul>